## **Nuclear Membrane Monoclonal Mouse Antibody (NM97)**



Call us: 800-304-5357

## **Product Description**

This monoclonal antibody is part of a new panel of reagents, which recognizes subcellular organelles or compartments of human cells. These markers may be useful in identification of these organelles in cells, tissues and biochemical preparations. It recognizes an antigen associated with the nuclear membrane expressed in hur cells. It can be used to stain the nuclear membrane in cell or tissue preparations and can be used as a marker of nuclear membrane in subcellular fractions. It produces a ring pattern around the nucleus of cells of normal and malignant cells and may be used to stain the nuclear membrane of cells in fixed or frozen tissue sections. ,The nuclear envelope (also known as the perinuclear envelope, nuclear membrane, nucleolemma or karyotheca) is double membrane of the nucleus that encloses genetic material in eukaryotic cells. It separates the contents of nucleus (DNA in particular) from the cytosol (cytoplasm). Numerous nuclear pores are present on the nuclear envelope to facilitate and regulate the exchange of materials (for example, proteins and RNA) between the nucl and the cytoplasm. The space between the two membranes that make up the nuclear envelope is called the perinuclear space (also called the perinuclear cisterna), and is usually about 20 - 40 nm wide. Each of the two membranes is composed of a lipid bilayer. The outer membrane is continuous with the rough endoplasmic reticulum. The inner membrane is erected upon the nuclear lamina, a network of intermediate filaments made of lamin, that plays a role in mitosis and meiosis. The type of lamins present are A, B1, B2, and C. The nuclear envelope may also play a role in the disposition of chromatin inside the nucleus. The lamina acts as a site of attachment for chromosomes. It also acts like a shield for the nucleus. During prophase in mitosis, the chromatids begin condensing to form chromosomes, and the nuclear envelope begins to disintegrate. During metaphase, the nuclear envelope is completely disintegrated, and the chromosomes can be pulled apart as chromatids by the spindle fibers. Primary antibodies are available purified, or with a selection of fluorescent CF® dyes and other labels. CF® dyes offer exceptional brightness and photostability. See the CF® Dye Brochure for more information. Note: Conjugates of blue fluorescent dyes like CF®405S and CF®405M are not recommended for detecting low abundance targets, because blue dyes have lower fluorescence and can give higher non-specific background than other dye colors. **Stock status**: Because Biotium offers a large number of antibody and conjugation options, primary antibody conjugates may be made to order. Typical lead times are up to one week for CF® dye and biotin conjugates, and up to 2-3 weeks for fluorescent protein and enzyme conjugates. Please email order@biotium.com to inquire about stock status and lead times before placing your order. Catalog number key for antibody number 0097, Anti-Nuclear Membrane (NM97)

	Fiduuci ailiibules		
	Antibody number	#0097	
	Antibody reactivity	Nuclear Membrane	
	(target) Antibody type	Primary	
	Host species	Mouse	
	Clonality	Monoclonal	
	Clone	NM97	
	Isotype	IgG1, kappa	
	Molecular weight	Not Known	
	Synonyms	Not Known	
s, ıman of the	Entrez gene ID	Not Known	
	SwissProt	Not Known	
	Unigene	Not Known	
	Immunogen	Nuclei of myeloid leukemia biopsy cells	
the the	Antibody target cellular localization Species reactivity	Nuclear membrane	
		Human	
leus	Antibody application notes	For coating for ELISA, order Ab without BSA, Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody, Optimal dilution and staining procedure for a specific application	
of		should be determined by user, Recommended starting concentrations for titration are 1-2 ug/mL for most applications, or 1 ug/million cells/100 uL	
ids bo		for flow cytometry	

Product attributes

Email: btinfo@biotium.com

Conjugates: 0.1 mg/mL in PBS/0.1% BSA/0.05% azide, HRP conjugates: 0.1 mg/mL in PBS/0.05% BSA, Purified: 0.2 mg/mL in PBS/0.05% BSA/0.05% azide, Purified, BSA-free: 1 mg/mL in PBS without azide,

Human cell lines or Tonsil

Store at 2 to 8 °C, Protect fluorescent

conjugates from light, Note: store BSA-free antibodies at -10 to -35 °C

date of receipt when stored as recommended

For research use only (RUO)

Guaranteed for at least 24 months from

Room temperature

Positive control

Shelf life

Shipping condition

Storage Conditions

Regulatory status

Antibody/conjugate formulation

Antibody research areas

Antibody # prefix BNC04	Conjugation CF®405S	Ex/Em (nm) 404/431	Laser line 405	Detection channel DAPI (microscopy), AF405	Dye Features <a href="#">CF®405S Features</a>
BNC88	CF®488A	490/515	488	GFP, FITC	CF®488A Features
BNC68	CF®568	562/583	532, 561	RFP, TRITC	CF®568 Features
BNC94	CF®594	593/614	561	Texas Red®	CF®594 Features
BNC40	CF®640R	642/662	633-640	Cy®5	CF®640R Features
BNC47	CF®647	650/665	633-640	Cy®5	CF®647 Features
BNCB	Biotin	N/A	N/A	N/A	
BNUB	Purified	N/A	N/A	N/A	
BNUM	Purified.	N/A	N/A	N/A	

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